

That which is claimed:

1. A method for customer driven charge storage device design comprising the steps of:

providing more than one model of a charge storage device, the model adapted to convert at least one input into at least one output;

providing an interface, the interface being adapted to pass input to the model, the interface being adapted to pass output from the model, and the interface being adapted to hide the model;

wherein the customer addresses the interface with the input, the interface directs the input to at least one of the models, the model generates the output that passes through the interface to the customer.

2. The method of claim 1 wherein the model is selected from the group consisting of first principles' models, empirically-based models, and hybrid models consisting of combinations of first principles' models and empirically-based models.

3. The method of claim 1 wherein the input further comprised a plurality of inputs.

4. The method of claim 1 wherein the output further comprises a plurality of outputs.

5. The method of claim 1 wherein the model further comprises a database, the model and the database being in communication. ¹¹²

6. The method of claim 1 wherein the output further comprises a design of the charge storage device.

7. A method for customer-driven charge storage device design comprising the steps of:

providing a customer interface adapted for defining customer test procedure for a desired charge storage device and defining customer requirement for the charge storage device;

providing a plurality of charge storage device models;

providing a routine capable of selecting at least one of the charge storage device models;

executing a simulation wherein the customer test procedure, the customer requirement, and the selected

charge storage device model are combined to render a custom charge storage device design;

storing the custom charge storage device design;

and

outputting the custom charge storage device design.

8. The method of claim 7 wherein the selecting routine being adapted for either customer selection of routine selection based upon, at least in part, the customer test procedure and the customer requirement.

9. The method of claim 7 wherein the model further comprises a sizing program and a performance program.

10. The method of claim 7 wherein the model further comprises a sizing program and a performance and an abuse program.

11. The method of claim 7 wherein executing a simulation further comprises the step of optimizing the simulation.

12. The method of claim 7 wherein outputting the custom charge storage device design further comprises the step of reporting the design.

12. The method of claim 7 wherein outputting the custom charge storage device design further comprises the step of reporting the design.